AMENDMENTS TO THE CLAIMS

This listing replaces all prior listings and versions of claims in the application.

- 1. (Currently Amended) A method for quantifying small particle LDL in a test sample, comprising:
- (i) removing lipoproteins other than small particle LDL and HDL from said test sample by adding a separation agent comprising a polyanion, a divalent cation, and a monovalent cation, wherein the monovalent cation is at a final concentration of less than 50 mmol/L; and then
- (ii) <u>eliminating HDL by treating the test sample with cholesterol esterase and cholesterol</u> <u>oxidase in the presence of a surface active agent that is polyalkylene oxide; and</u>
- (iii) quantifying small particle LDL in said the test sample from step (i) (ii) by measuring the amount of LDL; wherein step (i) comprises adding a separation agent comprising a polyanion and a divalent cation to

(Cancelled)

said test sample.

2.-3.

4. (Previously Presented) A method according to claim 1, wherein the polyanion is

selected from the group consisting of heparin, phosphotungstic acid and dextran sulfate.

- 5. (Previously Presented) A method according to claim 1, wherein the divalent cation is selected from the group consisting of Mn²⁺, Mg²⁺ and Ca²⁺.
- 6. (Currently Amended) A method according to claim [[3]] $\underline{1}$, wherein the monovalent cation is selected from the group consisting of Na⁺, K⁺ and Li⁺.
- 7. (Previously Presented) A method according to claim 4, wherein, when the polyanion is added to the test sample, the final concentration of the polyanion is 10-250 U/mL for heparin, 0.02-1.25% for dextran sulfate and 0.02-1.25% for phosphotungstic acid.

- 8. (Previously Presented) A method according to claim 5, wherein, when the divalent cation is added to the test sample, the final concentration of the divalent cation is 2.5-35 mmol/L for Mn^{2+} , 2.5-125 mmol/L for Mg^{2+} and 1-75 mmol/L for Ca^{2+} .
 - 9. (Cancelled)
- 10. (Currently Amended) A method for quantifying small particle LDL in a test sample, comprising:
- (i) removing lipoproteins other than small particle LDL and HDL from said test sample by adding a separation agent consisting of PEG; and then
- (ii) eliminating HDL by treating the test sample from step (ii) with cholesterol esterase and cholesterol oxidase in the presence of a surface active agent, wherein the surface active agent is polyalkylene oxide; and

wherein step (i) comprises adding PEG to said test sample.

- 11. (Previously Presented) A method according to claim 10 wherein the final concentration of PEG is 2-5% by weight when PEG is added to the test sample.
- 12. (Previously Presented) A method according to claim 1, wherein measuring the amount of LDL is carried out by using a reagent which is used for selectively measuring cholesterol in LDL and which does not require fractionation.
- 13. (Previously Presented) A method according to claim 1, wherein measuring the amount of LDL is carried out by using a reagent which is used for selectively measuring triglycerides in LDL and which does not require fractionation.
- 14. (Previously Presented) A method according to claim 1, wherein measuring the amount of LDL is carried out by using an anti-human apoprotein B antibody.

- 15. (Currently Amended) A method for separating small particle LDL from a test sample that contains LDLs, comprising precipitating LDLs other than small particle LDL by adding a separation agent comprising a polyanion and a divalent cation a monovalent cation at a final concentration of less than 50 mmol/L to the test sample.
- 16. (Currently Amended) A method according to claim 15, wherein said separation agent further comprises a monovalent cation a polyanion and a divalent cation.
- 17. (Currently Amended) A method according to claim [[15]] <u>16</u>, wherein the polyanion is selected from the group consisting of heparin, phosphotungstic acid and dextran sulfate.
- 18. (Currently Amended) A method according to claim [[15]] $\underline{16}$, wherein the divalent cation is selected from the group consisting of Mn^{2+} , Mg^{2+} and Ca^{2+} .
- 19. (Previously Presented) A method according to claim 15, wherein the monovalent cation is selected from the group consisting of Na⁺, K⁺ and Li⁺.
- 20. (Previously Presented) A method according to claim 17, wherein, when the polyanion is added to the test sample, the final concentration of the polyanion is 10-250 U/mL for heparin, 0.02-1.25% for dextran sulfate and 0.02-1.25% for phosphotungstic acid.
- 21. (Previously Presented) A method according to claim 18, wherein, when the divalent cation is added to the test sample, the final concentration of the divalent cation is 2.5-35 mmol/L for Mn^{2+} , 2.5-125 mmol/L for Mg^{2+} and 1-75 mmol/L for Ca^{2+} .
 - 22. (Cancelled)
- 23. (Previously Presented) A method for separating a small particle low density lipoprotein from a test sample that contains LDLs, comprising precipitating LDLs other than small particle LDL by adding PEG to the test sample.
- 24. (Previously Presented) A method according to claim 23, wherein the final concentration of PEG is 2-5% by weight when PEG is added to the test sample.

25.-36. (Cancelled)

- 37. (New) A method according to claim 1, wherein the surface active agent is selected from the group consisting of polyoxyethylene lauryl ether, polyoxyethylene cetyl ether, polyoxyethylene octylphenyl ether and polyoxyethylene nonylpheny ether.
- 38. (New) A method according to claim 10, wherein the surface active agent is selected from the group consisting of polyoxyethylene lauryl ether, polyoxyethylene cetyl ether, polyoxyethylene octylphenyl ether and polyoxyethylene nonylpheny ether.